

Listing of Claims:

Claims 1 and 2 (Previously withdrawn)

3. (previously amended) A method for transmitting frames of data over a wireless access system, each frame having a plurality of data slots, comprising the steps of:

identifying the types of traffic being transmitted between a first communication device and a second communication device;

reserving at least one data slot in a frame for each type of traffic being transmitted between the first communication device and the second communication device; and

including a control time slot in the frame that identifies the first communication device, the second communication device, and the traffic type of each data slot in the frame.

4. (previously amended) A method for transmitting frames of data over a wireless access system, each frame having a plurality of data slots, comprising the steps of:

identifying the types of traffic being transmitted between a first communication device and a second communication device; and

reserving at least one data slot in a frame for each type of traffic being transmitted between the first communication device and the second communication device; and

wherein the identifying step includes the substep of identifying the types of traffic being transmitted between a third communication device and one of the first and second communication devices.

5. (Original) The method according to claim 3, wherein the reserving step of including a control time slot includes the substep of identifying the types of traffic that are supported by one of the first and second communication devices.

6. (Original) The method according to claim 4, wherein the reserving step includes the substep of reserving at least one data slot in the frame for each type of traffic being transmitted between the third communication device and one of the first and second communication devices.

Claims 7 – 11 (Previously withdrawn)

12. (Original) A system for transmitting frames of data over a wireless access system, each frame having a plurality of data slots, said system comprising:

means for identifying the types of traffic being transmitted between a first communication device and a second communication device;

means for reserving at least one data slot in a frame for each type of traffic being transmitted between the first communication device and the second communication device; and

means for including a control time slot in the frame that identifies the first communication device, the second communication device, and the traffic type of each data slot in the frame.

13. (Original) The system in accordance with claim 12 wherein said means for identifying includes means for identifying the types of traffic being transmitted between a third communication device and one of the first and second communication devices.

14. (Original) The system in accordance with claim 12 wherein said plurality of time slots includes at least one time slot for transmitting voice traffic.

15. (Original) The system in accordance with claim 12 wherein said plurality of time slots includes at least one time slot for transmitting video traffic.

16. (Original) The system in accordance with claim 12 wherein said data slots correspond to different ones of a plurality of different traffic types.

17. (Original) A system for transmitting frames of data over a wireless access system, each frame having a plurality of data slots, said system comprising:

means for identifying the types of traffic being transmitted between a first communication device and a second communication device and between a third communication device and one of the first and second communication devices; and

means for reserving at least one data slot in a frame for each type of traffic being transmitted between the first communication device and the second communication device and at least one time slot in a frame for each type of traffic being transmitted

C1 between the third communication device and one of the first and second communication devices.
